2 µm Thulium Fiber Laser

Up to 50 W

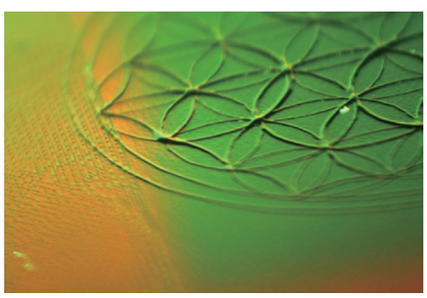
The new Industrial Fiber Laser product line by Futonics is based on Thulium single-mode 2 µm fiber laser oscillators with wavelength stabilization by Fiber Bragg Gratings (FBG). Due to high power, high beam quality and compact design, these products are highly suitable for a broad range of industrial and scientific applications.

Features

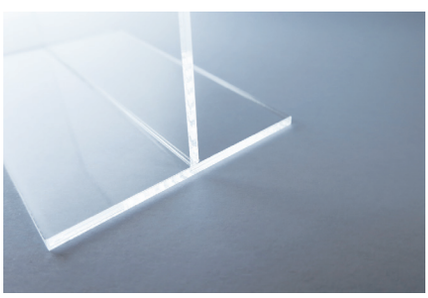
- Different output power levels and emission wavelengths (1930 nm - 2050 nm)
- High beam quality in full power range
- Stand-alone robust tabletop housing
- Robust to back reflections
- 2 RU housing
- Low noise

Applications

- Cutting and marking of plastics
- Welding of transparent plastics
- Labeling of food items
- Mid-IR laser pumping
- Surface treatment
- Marking of metals



Engraving of transparent plastics



Welding of transparent plastics

Natural branding

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Technical Specifications

Optical specifications

Output power:	10 W (IFL10), 20 W (IFL20), 30 W (IFL30), 40 W (IFL40), 50 W (IFL50)
Standard wavelengths:	2000 nm or 2050 nm
FWHM:	< 1 nm
Beam quality:	M^2 < 1.2, single-mode
Operating mode:	CW, modulated up to 10 kHz
Laser class:	4
Fiber connector, NA, length:	FC/PC or SMA, 0.15, 5 meters
Collimator:	Optional

General specifications

Dimensions (width x height x depth):	483 mm x 88 mm x 505 mm (19″, 2 RU)
Supply voltage:	100 - 240 VAC, 50 - 60 Hz
Power consumption:	≤ 350 W
Standard interface:	D-SUB 25, D-SUB 9
Display:	Capacitive 3.5″ touch-screen & control wheel
Cooling:	Water

Options

Additional fiber length:	1 meter steps up to 20 meters total
Fiber connector:	FC/PC, SMA, QBH connection possible
Fiber applicator I:	Basic collimator
Fiber applicator II:	Enhanced collimator with power detection for closed-loop control
Power stabilization:	Closed-loop control up to 10 kHz
Fixed custom wavelength:	Selection between 1930 nm and 2050 nm
External power supply:	Optional
Enhanced interface:	Industrial Ethernet available upon request

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